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CR-142718

Investigation Title: Utilization of Skylab (EREP) System
for Appraising Changes in Continental
Migratory Bird Habitat.

EREP Investigation No. 486
Period Covered: April 1975
NASA Contract No. T-4114B
USDI Contract No. 14-16-0008-802

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Principal Investigations Management Office:

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Type of Report: Monthly Progress

Overall Status:

Delineation of open surface water by processing a single channel of S-192 data using the thresholding technique is nearly completed. Statistical tabulations of surface water will include a 2250 mi² area. A memory disc failure just prior to the shutdown of ERIM's 7094 computer system precluded the final run of the surface water statistical summary. This job will be resubmitted when the 7094 system is back in operation in approximately one month.

Surface water statistics using data obtained by supporting aircraft have been generated. We have also accomplished signature extraction and refinement preliminary to wetland and associated upland vegetation recognition using a selected portion of the aircraft data. Final classification mapping will take place when the 7094 computer system is back in operation.

An analysis of surface water trends will be accomplished in the near future using the following data sets:

(E75-10281) UTILIZATION OF SKYLAB EREP
SYSTEM FOR APPRAISING CHANGES IN CONTINENTAL
MIGRATORY BIRD HABITAT Monthly Progress
Report, Apr. 1975 (Northern Prairie Wildlife
Research Center) 2 p HC \$3.25

N75-24054

Unclas
CSCI 06C G3/43 00281

<u>Date</u>	<u>Sensor</u>
12 May 1973	aircraft MSS
14 May 1973	ERTS-1 MSS
12 June 1973	SKYLAB/EREP S-192 (MSS)
7 July 1973	ERTS-1 MSS
12 August 1973	aircraft MSS

A thematic map (scale 1/125,000) for water recognition will be produced from recognition data now available using an "ink-drap" process.

Recommendations for Action:

Prompt forwarding of S-192 conic scan data by NASA and authorization and funds to process this data will greatly facilitate this investigation.

Expected Accomplishments During the Next Reporting Period:

Analysis of surface water statistics generated to date will be accomplished. Preparation of the final report will commence. A thematic map of surface water using the ink-drap process will be produced. The additional processing of S-192 multispectral data is contingent upon the availability of conic scan data as noted above.

Summary Outlook:

Data analysis and final report preparation of this investigation will begin next month.

Travel Summary and Outlook:

No travel was undertaken during this reporting period. Travel is not anticipated during the next reporting period.